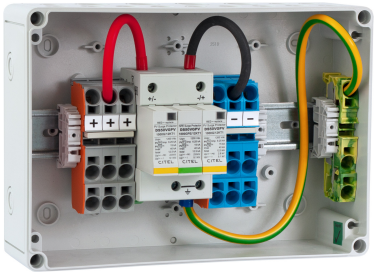
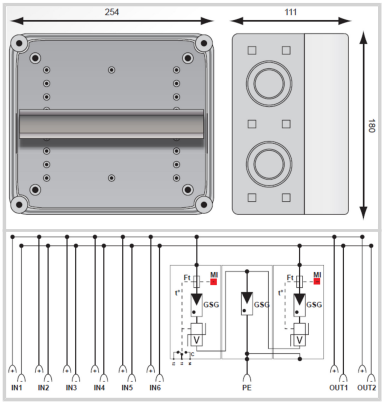
PV-DC-Junction box

GAK1.K6x16.K2x16.51VG-12



- Generator junction box for 1 MPP tracker / 4 strings
- Integrated surge protection (DS50VGPVS-1000G/12KT1, type 1+2)
- Protection class IP65
- Connection via spring-terminals



Electrical Characteristics		
SPD type	IEC	1+2
Network		PV network 1000 Vdc
Nominal DC voltage	Un-dc	1000 Vdc
Max. PV operating voltage	Ucpv	1200 Vdc
Rated insulation voltage *Ui*	Ui	1000 Vdc
Rated current *InA*	InA	60 A
Rated string current	InC	40 A
Mechanical Characteristics		
Protection rating		IP65
Input / per MPPT		Spring clamp terminals / 4x 6-16mm²
Output / per MPPT		Spring terminals / 2x 6-16mm²
Ground connection terminal		Spring clamp terminals / 6-16mm²
Cable gland		Metric / 18x M16 (Ø 5-7mm)
Housing material		UV and ozone resistant, fiberglass reinforced polycarbonate with semi-transparent cover
Dimensions		WxHxD (mm): 254 x 180 x 111
Ambient temperatures		Indoor: -5°C to max. +40°C (+35°C 24h average) / Outdoor: -25°C to max. +40°C (+35°C 24h average)
Humidity		Indoor: max. 50% at +40°C, max. 90% at 20°C (non-condensing) / Outdoor: 95% for a short time at +25°C (non-condensing)
Protection class		Class II
Impact resistance		IK 8
Pressure compensation element		Existing
Standards		
Standards compliance		DIN EN 50539-11 / DIN EN IEC 61439-2
Part number		
158109		